

# Day & Night

S40371 - 24VAC

S40372 - 12VDC

(current draw less than 550mA)

## IR Colour Camera

Pacific Communications is proud to introduce the latest technology in combined infrared day & night video surveillance with the new Day & Night IR Colour Camera. Several new and unique technologies have been adopted to make this camera one of the worlds best in performance and reliability.



Providing increased performance of the IR components, the PACOM Day & Night IR Colour Camera dramatically improves upon the technical limitations associated with conventional IR cameras; such as overheating, the short-term life of the IR, defocusing of the camera at night, moisture & condensation issues, the lack of a clear image under the IR beam, and the short distance of IR illumination.

Best of all, the camera guarantees to provide reliable long-term night vision without degradation in IR performance.

### Key Features

- External focus and zoom controls making adjustment and setup very easy during installation
- Long distance night time surveillance (within 2-35m)
- High Resolution 550TVL (Colour mode) to 580TVL (BW mode)
- Very accurate colour reproduction with 10 bit A/D Process
- DIP SW functions (BLC, AGC, WB)
- 1/3" EX-View HAD Colour CCD sensor (Sony)
- Extremely clear focus at both Day and Night (No focus shift)
- Power Surge input protection built-in
- Automatic image conversion from Colour to BW (True DN)
- Intelligent IR Protection technology built-in (IIRP)
- Automatic LED on/off
- Weatherproof (IP66)

Unique External  
Zoom & Focus  
Control



Images taken under pitch black conditions in warehouse at night.



Visibility at 5 metres



Visibility at 10 metres



Visibility at 15 metres



Visibility at 20 metres



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CLOSED CIRCUIT VIDEO SYSTEMS

# What's Special?

## Greatly improved sensitivity

With sensitivity enhanced hardware, plus a built-in B&W mode change over system (True DN), this camera generates at least two times better low lux performance than conventional cameras.

## Clear view in total darkness

High sensitive, long range Infra-red LEDs (850nm IR x 36 ea) are used providing visibility in dark areas at 0 Lux (night), within a distance of 2-35m.

## True Day & Night image change at 3~5 Lux (True DN)

The Day & Night mode of the camera automatically changes from Colour during daytime to BW at night-time at 3~5 lux. Combined with a built-in dual filter system, this allows the camera to produce a perfect true colour image during the day and a noise free B&W image at night.

## Greatly improved horizontal resolution (10bit data process)

By utilising 10bit Data Processing, colour and BW reproduction is greatly improved compared to conventional cameras.

## Self focus compensation technology under IR illumination

The camera incorporates a self-focus adjustment technology, which corrects the focus shift when IR illumination is activated at night and maintains resolution of 550TVL(Day) and 580TVL(Night).

## Day/Night dual filter system (Varifocal 4-9mm standard)

Built-in 4mm-9mm lens with dual filters that automatically switch on and off between Day and Night modes.

## Intelligent IR Protection technology (IIRP) built-in

This model incorporates an IR LED protection technology that intelligently prevents IR LED's from burning out after long periods of use and to maintain the performance and life cycle of IR LED's. Generally, conventional LED cameras are intentionally overpowered in order to brighten up the beam strength and this makes the camera run hot and reduces the life cycle of the LED's and CCD sensor.

## Accurate LED On/Off

The IR LED's will turn on and off automatically.

## Complete weatherproof mechanism

The camera is IP66 rated.

# Specifications

<b>Image sensor</b>	1/3" High resolution EX-View HAD Colour CCD Sony
<b>Effective Pixels</b>	PAL : 768(H) X 494(V)
<b>H.Resolution (TRUE DN)</b>	550 TV Lines (10 bit A/D process)- Colour mode 580 TV Lines (10 bit A/D process)- BW mode
<b>Synchronizing system</b>	Internal
<b>Scanning system</b>	PAL: 625 Lines 2:1 Interlaced
<b>Video output</b>	1.0Vp-p Composite. 75 Ohms
<b>S/N ratio</b>	More than 50 dB (AGC Off)
<b>Min. Illumination</b>	0.1 Lux at F1.6 w/o LED, 0 (zero) Lux with LED
<b>BLC</b>	On/Off (with DIP SW)
<b>White balance</b>	2100°K ~9100°K Auto
<b>Gain Control</b>	0dB~32dB Auto
<b>Gamma correction</b>	r = 0.45
<b>Smear effect</b>	0.005%
<b>Shutter speed</b>	PAL : 1/50~1/100,000 sec
<b>LED spectrum</b>	850nm 30 degree visible IR LED x (36 EA )
<b>IR Beam distance</b>	2-35m
<b>IR LED'S MTBF</b>	20,000 hours (more than 4 Years)
<b>Power source</b>	24VAC (S43071) 12VDC (S43072)
<b>Operation current</b>	200mA w / regulated 24VAC in (less than 450mA - 12VDC)
<b>Lens Standard</b>	4mm - 9mm Varifocal Auto DC iris lens
<b>Operating Temp.</b>	-10° C~ + 50° C
<b>Humidity</b>	Within 90% RH
<b>Output Terminal</b>	60CM DIY 4 pin DIN Waterproof cable with BNC- Female for Video, 2 Pin terminal connector for Power
<b>Measurement (mm)</b>	70(D)x120(L)
<b>Weight(Approx.kg)</b>	1kg

\* All Lens are with removable filter built-in

\* Specifications are subject to change for improvement without prior notice

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